

# **New FM 3-36 – Electronic Warfare in Operations**

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### **Background Paper**

#### **Why do we need new Electronic Warfare (EW) doctrine?**

- Field Manual (FM) 3-36 provides Army doctrine for electronic warfare planning, preparation, execution, and assessment in support of full spectrum operations.
  - It is the Army's first overarching EW keystone doctrinal document; previous doctrinal manuals were not comprehensive enough to provide an encompassing framework for development of cohesive doctrine at all levels.
  - As such, the new FM provides the foundation and framework for developing coordinated and cohesive EW at all echelons nested under the FM 3-0, *Operations*.

#### **Previous EW Doctrine**

- Army EW doctrine prior to the publication of FM 3-36 was outdated and not sufficient to provide Army forces with the information required to plan or conduct effective EW operations in support of land forces.
- Additionally, Army EW doctrine did not follow Joint EW doctrine.
- Obsolete EW doctrinal publications:
  - FM 34-72 (Reprogramming) MTTP for Reprogramming of Electronic Warfare and Target Sensing Systems, dated Jan 2003 -- the most recent doctrine for EW.
  - Field Manual (FM) 34-45, Tactics Techniques and Procedures for Electronic Attack, published in 9 Jun 2000
  - FM 34-10, Division Intelligence and Electronic Warfare Operations, dated 25 Nov 86
  - FM 34-37, Echelons Above Corps (EAC) Intelligence and Electronic Warfare (IEW) Operations, dated 15 Jan 1991

- These EW doctrinal manuals often refer to organizations, systems and capabilities that either no longer exist or that are no longer relevant to current Army operations.
- Given the increase in non-traditional use of EW, and the threat presented by adversarial use of the Electromagnetic Spectrum, Army EW doctrine required revision.

### **How will new doctrine be implemented?**

- Users of FM 3-36 must be familiar with full spectrum operations established in FM 3-0; the military decision-making process established in FM 5-0; the operations process established in FMI 5-0.1; commander's visualization described in FM 6-0; and electronic warfare described in JP 3-13.1, *Electronic Warfare*.
- Current and future Army forces will typically be organized as part of joint and/or multinational forces.
  - Whether involved in offensive, defensive, stability operations or civil support operations, EW will play a critical role in successful mission accomplishment. FM 3-36 will provide the Army the doctrinal foundation required to support current and future joint and/or multinational operations and further EW Doctrine, Operations, Training, Materiel, Leadership, Personnel, and Facilities (DOTMLPF) development and integration.
- This manual implements joint EW doctrine established as JP 3-13.1 *Electronic Warfare*, dated 25 January 2007 which superseded JP 3-51 *Electronic Warfare*. FM 3-36 will focus on: the broad application of EW across the spectrum of operations; the organizational structure for planning, coordinating, synchronizing, and executing EW operations; the relationship of EW with Information Operations and Electromagnetic Spectrum Operations (EMSO); and will provide applicable new terms, definitions, and principles.

### **How is the new FM 3-36 organized; and what will be its scope?**

- **Organization.** FM 3-36 is organized into seven chapters and six appendixes. Each chapter addresses a major aspect of Army EW operations. The appendixes address aspects of EW operations that

complement the operational doctrine. An annotated glossary contains selected terms.

- Chapter 1 discusses the nature and scope of electronic warfare and the impact of the electromagnetic environment on Army operations.
  - Chapter 2 offers a discussion of EW support to full spectrum operations, combat power, the warfighting functions, and information operations.
  - Chapter 3 introduces the organizational framework for command and control of EW operations.
  - Chapter 4 describes how commanders integrate EW operations throughout the operations process—plan, prepare, execute, and assess.
  - Chapter 5 discusses the coordination required to synchronize and deconflict EW operations effectively.
  - Chapter 6 provides the baseline for integrating EW operations into joint and multinational operations.
  - Chapter 7 discusses the enabling activities that provide support to EW operations such as command and control, intelligence, logistics, technical support and EW training.
  - The appendices provide greater depth to several areas discussed in the FM such as the electromagnetic environment, current capabilities, tools and resources that EW personnel can leverage in their efforts to support Army operations.
- **Scope.** FM 3-36 provides guidance on EW operations for commanders at all echelons and is the authoritative reference for Army personnel involved in the development of doctrine (fundamental principles and tactics, techniques, and procedures), materiel, force structure, institutional and unit training, and standing operating procedures for unit operations. It is applicable to the Active Army, Army National Guard/Army National Guard of the United States, and U.S. Army Reserve, and informs the Joint audience on Army electronic warfare operations.

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